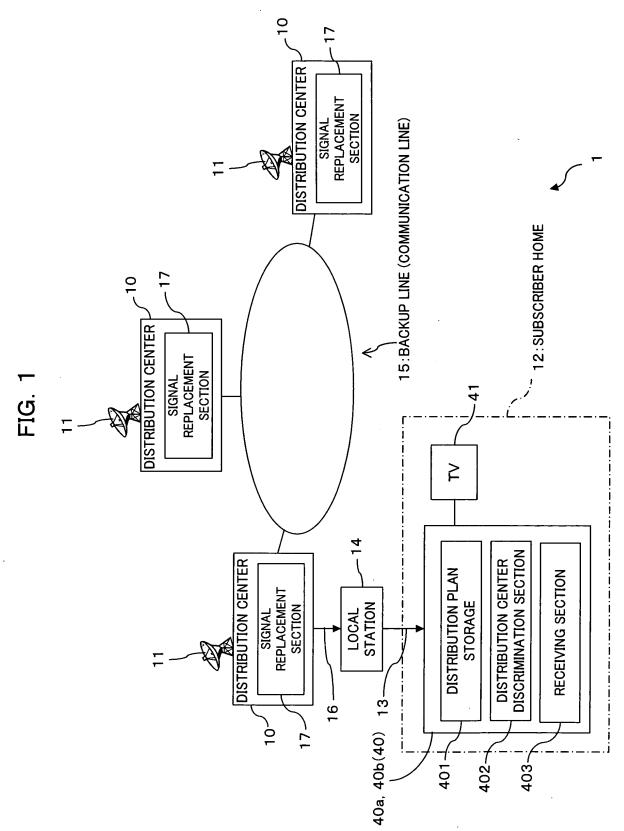
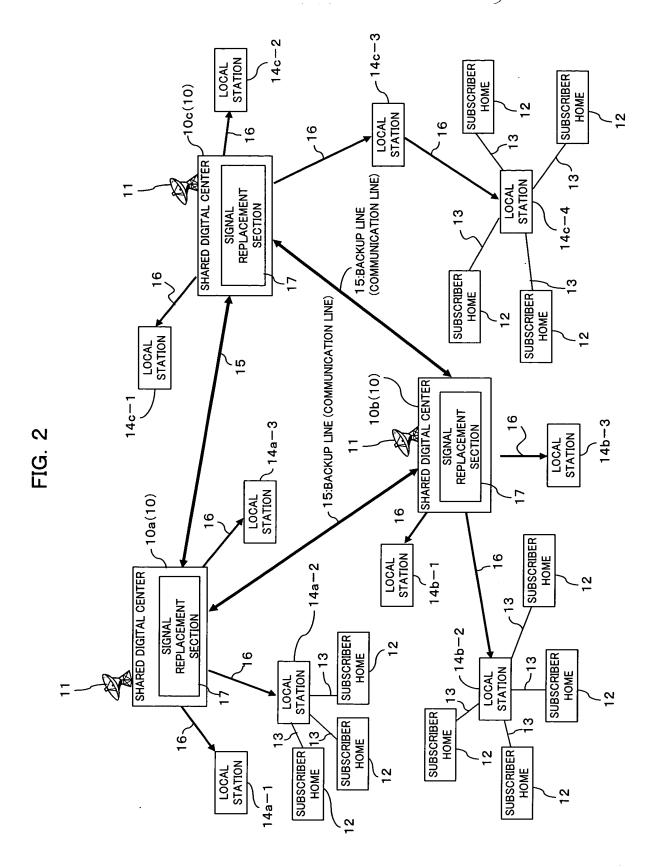
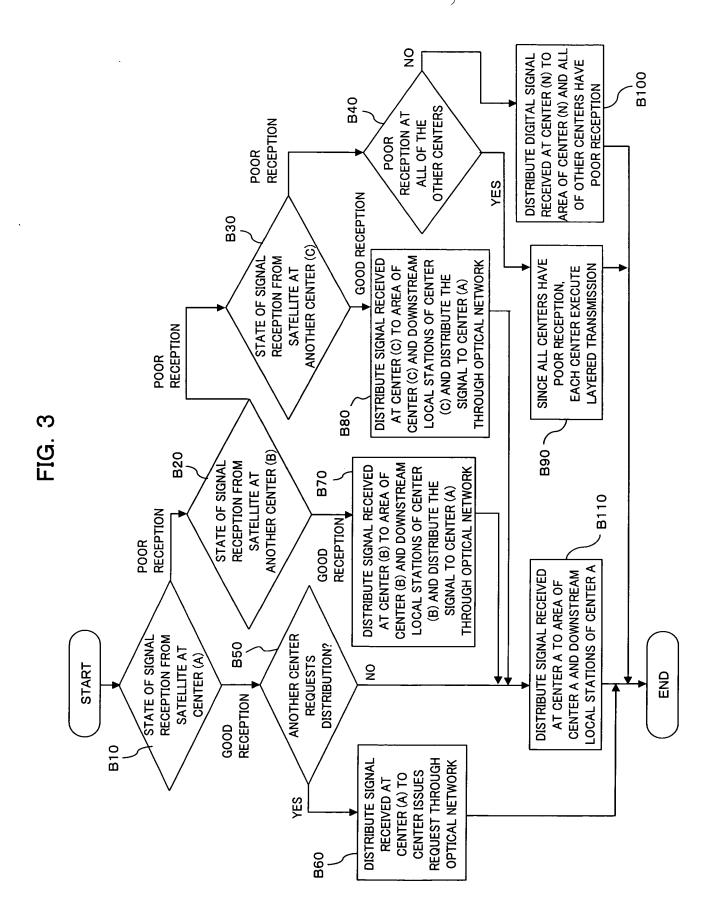
DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI SERIAL NO.: DOCKET NO.: 1075.1238



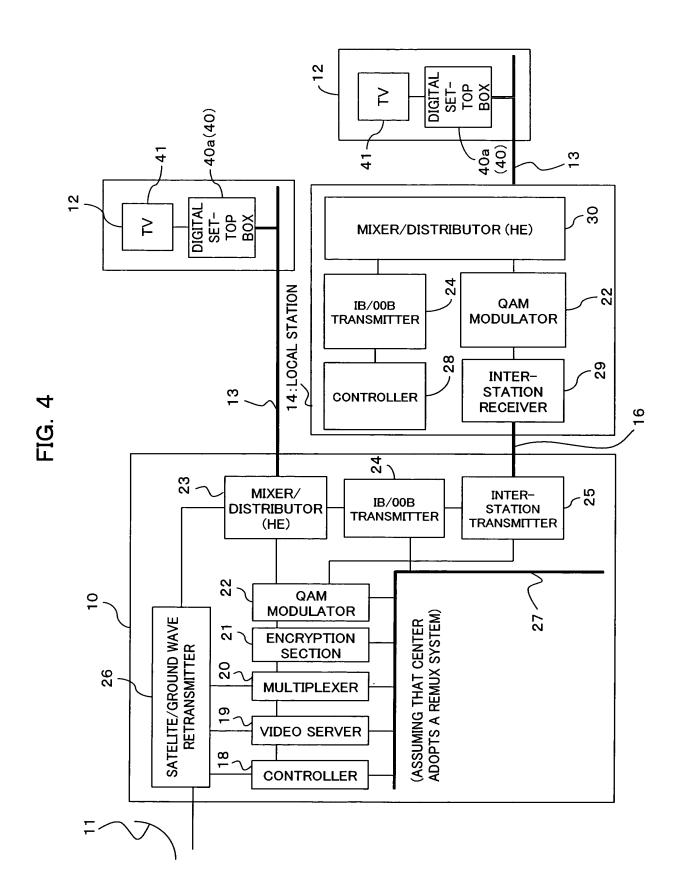


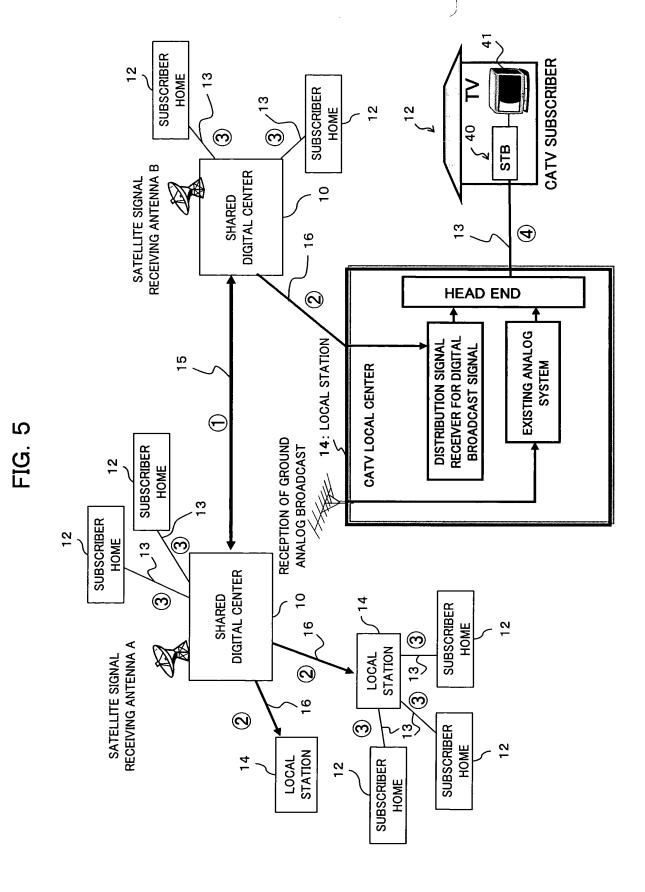
SERIAL NO.: DOCKET NO.: 1075.1238

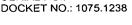


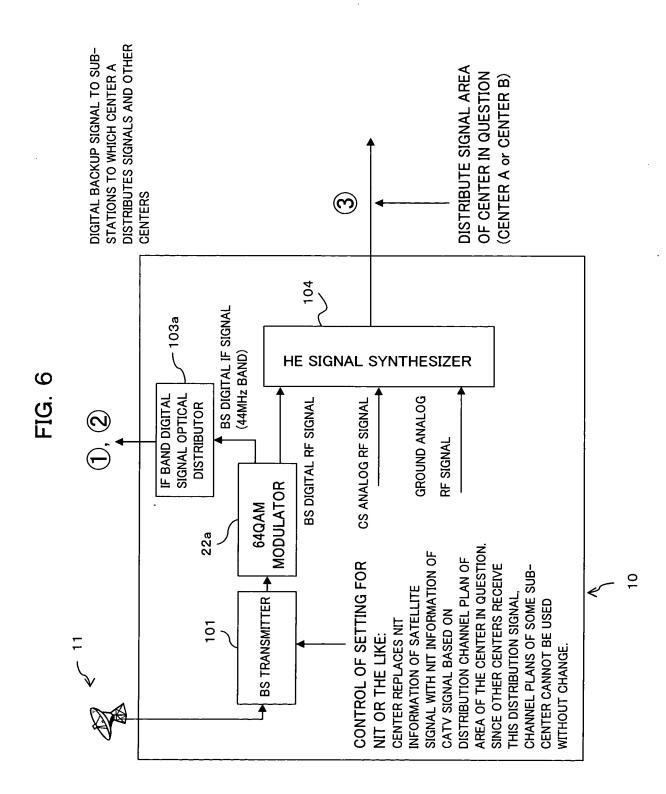


SERIAL NO.: DOCKET NO.: 1075.1238



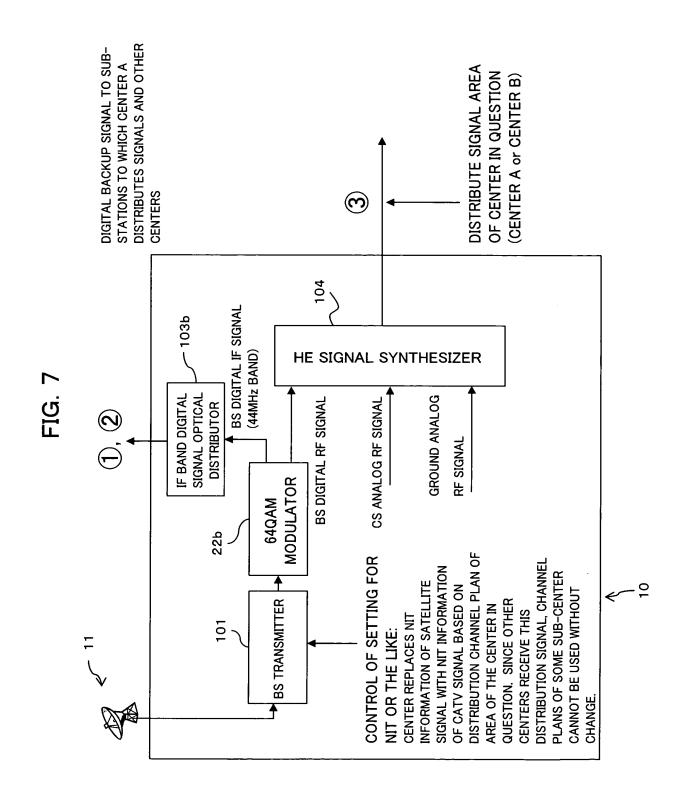






TITLE: DIGITAL BROADCAST SIGNAL DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI

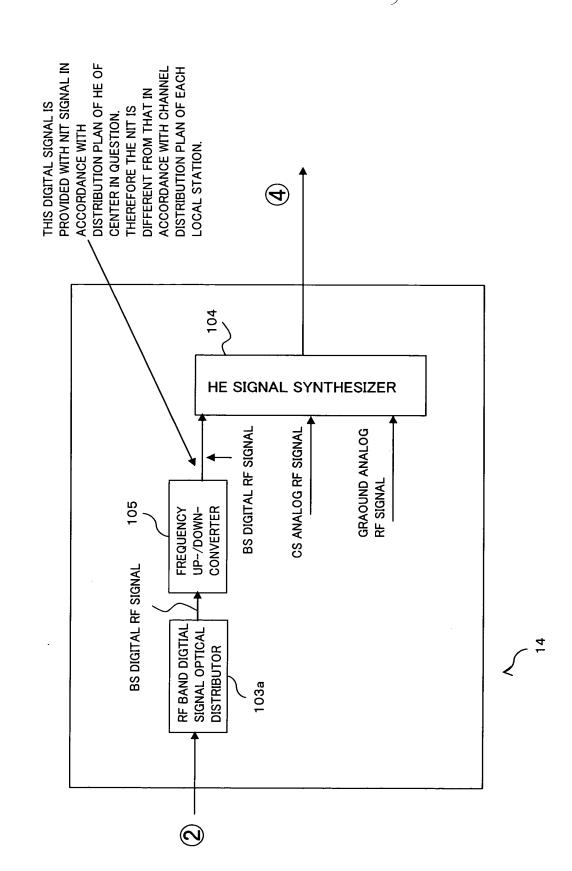
DOCKET NO.: 1075.1238

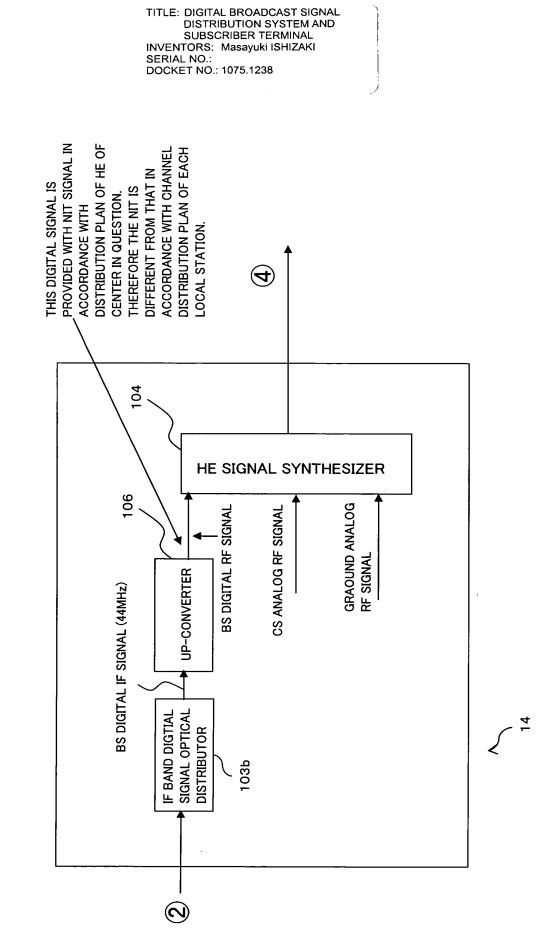


SI/PSI	NW-ID:04,TS-ID:01 S-ID:101,102 NIT:N32	NW-ID:04,TS-ID:02 S-ID:121,122 NIT:N31	NW-ID:04,TS-ID:03 S-ID:131,132 NIT:N34	NW-ID:04,TS-ID:04 S-ID:141,142 NIT:N36	NW-ID:04,TS-ID:05 S-ID:151,152 NIT:N37	NW-ID:04,TS-ID:06 S-ID:161,162 NIT:N38	NW-ID:04,TS-ID:07 S-ID:171,172 NIT:N40	NW-ID:04,TS-ID:08 S-ID:181,182 NIT:N41
DISTRIBUTION CHANNEL OF CENTER B	C32	C31	C34	C36	C37	C38	C40	C41
BS DIGITAL CHANNEL NAME	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8

EXAMPLES OF DISTRIBUTION CHANNEL OF CENTER B	BROADCAST SERVICE TYPE	CHANNEL NAME	NOTE
C25	CS ANALOG	SKY A	
C26	CS ANALOG	CHANNEL NECO	
C27	CS ANALOG	GAORA	
C28	CS ANALOG	SATELLITE THEATER	
C29	CS ANALOG	STAR CHANNEL	
C30	CS ANALOG	TOEI CHANNEL	
	BSDIGITAL	BS2	STB OBTAINS PROGRAM BASED ON RELATION BETWEEN S-ID AND NIT
C32	BSDIGITAL	BSI	STB OBTAINS PROGRAM BASED ON RELATION BETWEEN S-ID AND NIT
C33	CS ANALOG	KIDS STATION	
C34	BS DIGITAL	BS3 🐣 🌪 🐑	
C35	CS ANALOG	FAMILY THEATER	
980	BSDIGITAL	BS4	STB OBTAINS PROGRAM BASED ON RELATION BETWEEN S-ID AND NIT
	BSDIGITAL	BS5	STB OBTAINS PROGRAM BASED ON RELATION BETWEEN S-ID AND NIT
C38	BS DIGITAL	BS6	STB OBTAINS PROGRAM BASED ON RELATION BETWEEN S-ID AND NIT
C39	CS ANALOG	BBC WORLD	
C40 🛸 🤹	BS DIGITAL.	BS7	STB OBTAINS PROGRAM BASED ON RELATION BETWEEN S-ID AND NIT
🌞 🤏 C418 🗼 🍁	∗BS/DIGÍTAL	BS8 💝 🛸 🤹	STB OBTAINS PROGRAM BASED ON RELATION BETWEEN S-ID AND NIT
C42	CS ANALOG	CNN	
C43	CS ANALOG	FISHING VISION	

SERIAL NO.: DOCKET NO.: 1075.1238





TITLE: DIGITAL BROADCAST SIGNAL DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL

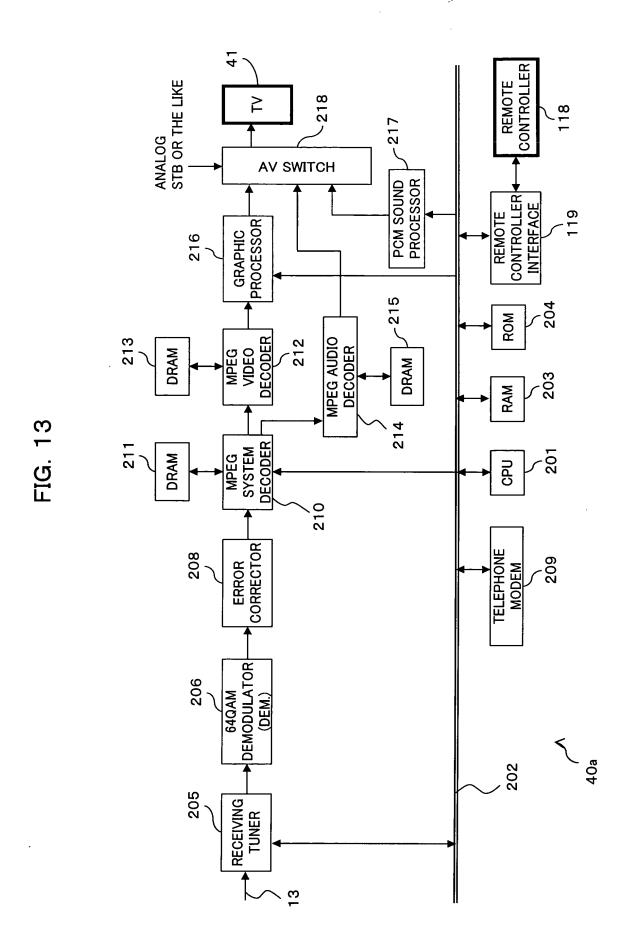
INVENTORS: Masayuki ISHIZAKI SERIAL NO.:

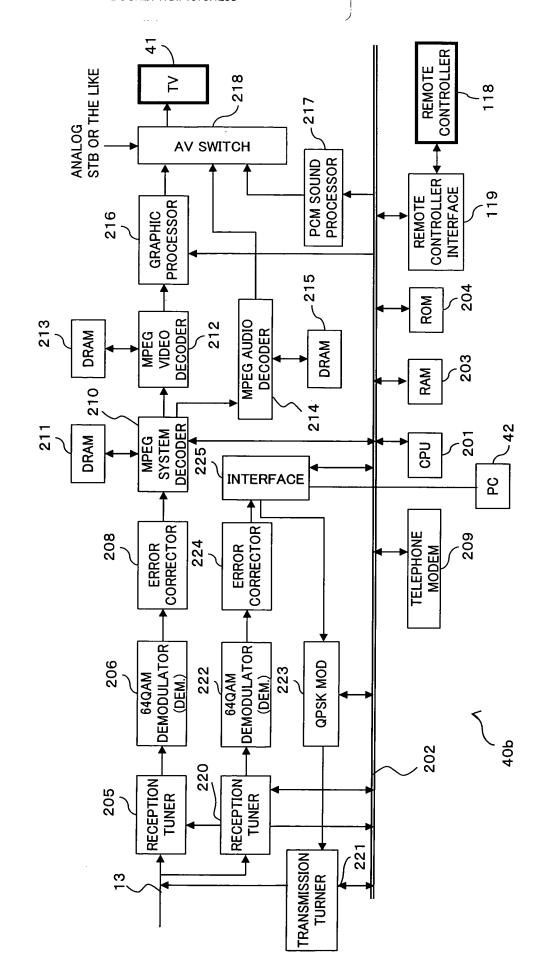
OEI (I) (E 140	
DOCKET NO.:	1075.1238

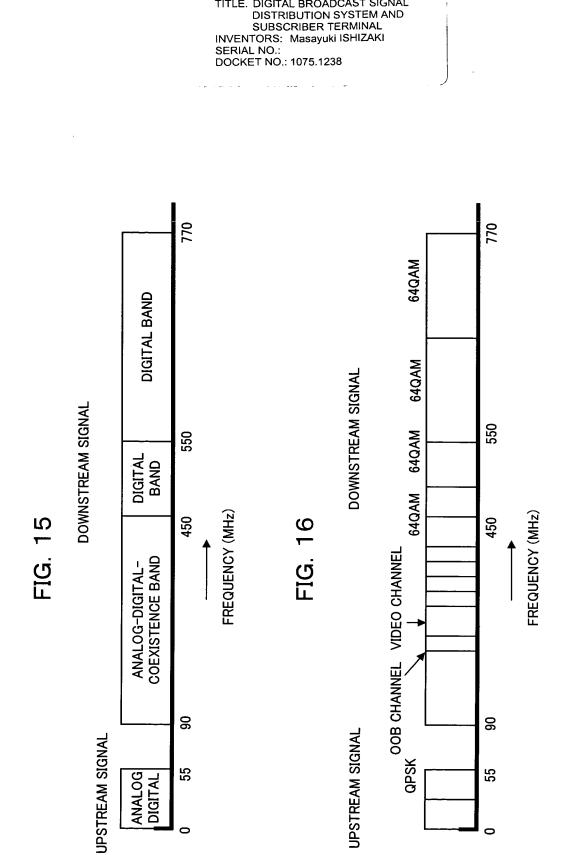
	FIG. 12(a	(a)		FIG 12(b)	12(h)	
EXAMPLES OF DISTRIBUTION CHANNEL OF CENTER B	BROADCAST SERVICE TYPE	CHANNEL NAME	EXAMPLES OF DISTRIBUTION CHANNEL OF	BROADCAST SERVICE	CHANNEL NAME	CHANNEL WITH HATCHING REQUIRES NIT
C25	CS ANALOG	SKY A	CENIER B	OC ANALOG	CINECII IMACIOA	REPLACEMENT
C26	CS ANALOG	CHANNEL NECO	670	DO MINALOG	CINETIL IMAGICA	
C27	CS ANALOG	GAORA	626	CS ANALOG	COMING SOON 1V	
C28	CS ANALOG	SATELLITE THEATER	CZ7	CS ANALOG	STAR CHANNEL	
C29	CS ANALOG	STAB CHANNEL	C28	CS ANALOG	FAMILY THEATER	
020	DOTAIN 30		C29	CS ANALOG	CNN	
000	CS AIVALUG	I OEI CHANNEL) C30	BS DIGITAL	ISB	N32 -+ N30
3	BS DIGITAL	852 E Spei	C31	BS DIGITAL	788	N31 = N31
632	BS DIGITAL	BSI	C32	CS ANALOG	SATELLITE THEATER	
C33	CS ANALOG	KIDS STATION	€ 033	BS DIGITAL	BS4	een — 9en
.034	BS DIGITAL	BS3	C34	BS DIGITAL	BS3	N34 = N34
C35	CS ANALOG	FAMILY THEATER	C35	CS ANALOG	FISHING VISION	
C36	BS DIGITAL	BS4	9E9 A	BS DIGITAL	BSS	9EN 1/2N
C37	BS DIGITAL	BS5	C37	CS ANALOG	TRAVEL CHANNEL	
	PS DIGITAL	838	©38	BS DIGITAL	BS6	N38 = N38
	DO MAIN OO		6E2 🖈	BS DIGITAL	1887	N40 N39
C40	ES DIGITAL	BBC WORLD	C40	CS ANALOG	KIDS STATION	
· [6]	RSIDIGITAL	BSB	641	BS DIGITAL	BS8	N41 = N41
C42	CS ANALOG	CNN	C42	CS ANALOG	ANIMATION THEATER X	
C43	CS ANALOG	FISHING VISION	C43	CS ANALOG	BBC WORLD	

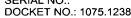
DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI

SERIAL NO.: DOCKET NO.: 1075.1238









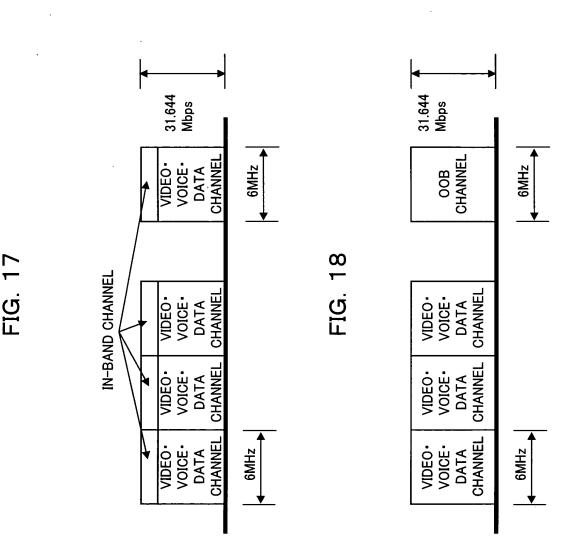


FIG. 19(a)

	_	.)}_
DISTRIBUTION CENTER C HE ID NO.: 03	((DIGITAL CH NW-ID:04 TS-ID:01 S-ID:101, 102 NIT INFO:N32		DIGITAL CH NW-ID:06 TS-ID:01 S-ID:501, 502 NIT INFO∴N34			\(\)
DISTRIBUTION CENTER B HE ID NO.: 02))		DIGITAL CH NW-ID:04 TS-ID:03 S-ID:131, 132 NIT INFO::N33		DIGITAL CH NW-ID:04 TS-ID:02 S-ID:121, 122 NIT INFO::N35	DIGITAL CH NW-ID:06 TS-ID:01 S-ID:501, 502 NIT INFO::N34))
DISTRIBUTION CENTER A HE ID NO.: 01		DIGITAL CH NW-ID:04 TS-ID:01 S-ID:101, 102 NIT INFO:N32		DIGITAL CH NW-ID:06 TS-ID:01 S-ID:501, 502 NIT INFO::N34	22	DIGITAL CH NW-ID:04 TS-ID:03 S-ID:131, 132 NIT INFO:N36	\(\bullet\)
ch No.	~(~ >>_	C32	C33	C34	C35	. 036	- ((- _}≥_

FIG. 19(b)

LOCAL CENTER PLAN HE ID NO.: 10	DIGITAL CH NW-ID:04 TS-ID:01 S-ID:101, 102 NIT INFO::N32	DIGITAL CH NW-ID:06 TS-ID:01 S-ID:501, 502 NIT INFO:N33	DIGITAL CH NW-ID:04 TS-ID:03 S-ID:131, 132 NIT INFO::N34	DIGITAL CH NW-ID:04 TS-ID:02 S-ID:121, 122 NIT INFO::N35		→\-
Ch No.	C32	C33	C34	C35	C36	

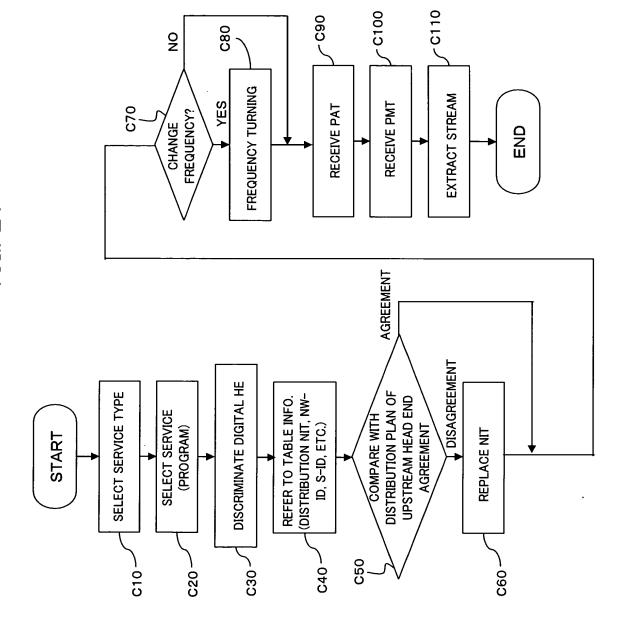
TITLE: DIGITAL BROADCAST SIGNAL DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI

SERIAL NO.:

DOCKET NO.: 1075.1238

NIT INFO. COMPARISON: AGREEMENT NIT INFO. COMPARISON: AGREEMENT DIGITAL CH COMPARISON: DIGITAL CH COMPARISON: AGREEMENT DIGITAL CH COMPARISON: DIGITAL CH COMPARISON: DIGITAL CH COMPARISON NIT INFO. REPLACEMENT NIT INFO. REPLACEMENT DISAGREEMENT DISAGREEMENT DISAGREEMENT AGREEMENT N34→N33 N36→N34 NIT INFO CH INFO ₹ HE ID NO.: 01 (CENTER A) RECEIVED BROADCAST **DISTRIBUTION SIGNAL** 132 S-ID:101, 102 S-ID:501, 50 NIT INFO:: N34 NIT INFO,: N35 NIT INFO.: N32 NW-ID:06 TS-ID:01 NW-ID:04 NW-ID:04 15/tp:02 DIGITAL CH TS-ID:01 DIGITAL CH S-ID:121 DIGITAL OH NW-ID: OA NIT INFO.: N DIGITAL CH S-ID:13 TS-ID:0 PREFERRED HE: CENTER A **UPSTREAM HEAD END** HE ID NO.: 10 S-ID:101, 102 S-ID:131, 132 S-ID:501, 502 S-ID:121, 122 VIT INFO.: N32 NIT INFO.: N39 NIT INFO.: N35 NIT INFO.: N34 NW-ID:06 DIGITAL CH NW-ID:04 NW-ID:04 NW-ID:04 TS-ID:03 **IS-ID:01** TS-ID:01 DIGITAL CH TS-ID:02 DIGITAL CH DIGITAL CH ch No. **C32 C33 C3**8 **C34 C35**

FIG. 20



DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI SERIAL NO.: DOCKET NO.: 1075.1238

		CONFIGURATION	4TION	BYTE LENGTH
	EMM SECTION HEADER	L	TABLE IDENTIFIER 0x84	8
		10 10 10 10 10 10 10 10 10 10 10 10 10 1	ID (RECEIVER ID)	9
		(B25 INTERCHANGEABLE PART)	(B25 INTERCHANGEABLE PART) LENGTH OF RELATIVE INFORMATION	-
	EMM PAYLOAD 1		PROTOCOL NUMBER	_
EMM SECTIO		(B25 NON-INTERCHANGEABLE PART)	DESCRIPTOR CONFIGURATION (INCLUDING TOLL AGENCY ID, UPDATE NO., EXPIRATION DATE, AND ALTERNATION DETECTION)	VARIABLE
N	EMM PAYLOAD 2			
	EMM PAYLOAD n			
	SECTION CRC			

DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI SERIAL NO.: DOCKET NO.: 1075.1238

ITEM
PROTOCOL NO.
STATION ID CODE
WORK KEY ID
CLASSIFICATION
SERVICE TYPE
SCRAMBLE KEY
PROGRAM CLASSIFICATION
PROGRAM NO.
REGISTERED DISCRIMINATION TYPE
REFERENCE REGISTERED CODE
PAY-PER-VIEW FEE
SCRAMBLE EFFECT CONTROL
TIME (YEAR/MONTH/DATE/TIME)
PROGRAM INFORMATION CHANGE
ALTERNATION DETECTION
EXTENSION AREA
PROGRAM MESSAGE

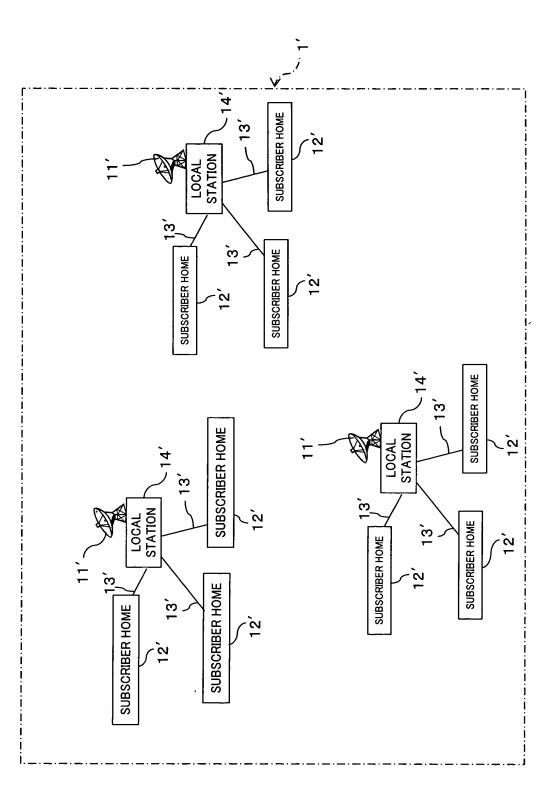
ITEM
PROTOCOL NO.
STATION ID CODE
WORK KEY ID
CLASSIFICATION
SUBSCRIBER INFORMATION NO.
DECODER ID NO.
COMPULSORY ON/OFF
ALTERNATION DETECTION
EXTENSION AREA

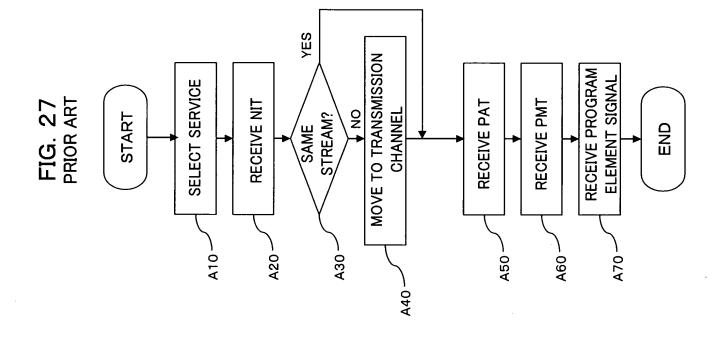
DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI SERIAL NO.: DOCKET NO.: 1075.1238

ITEM
PROTOCOL NO.
DECODER ID CODE
CLASSIFICATION
CONTRACTUAL SERVICE
WORK KEY
WORK KEY ID
EXPIRATION DATE
STATION ID CODE
CONTRACTUAL TYPE
CASH IN ADVANCE
SUBSCRIBER INFORMATION NO.
UPDATE NO.
ALTERNATION DETECTION
EXTENSION AREA
MESSAGE TO SUBSCRIBER

DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI SERIAL NO.: DOCKET NO.: 1075.1238

FIG. 26 PRIOR ART





DISTRIBUTION SYSTEM AND SUBSCRIBER TERMINAL INVENTORS: Masayuki ISHIZAKI SERIAL NO.: DOCKET NO.: 1075.1238

FIG. 28 PRIOR ART

ch No.	S-ID	NW-ID	TS-ID	CENTER DISTRIBUTION CHANNEL (ch)	CENTER FREQUENCY (MHz)
32	100,101	04	01	279	0
33		04	03	285	0
34	501,502	06	01	291	0
35		04	02	297	0
36		05	01	303	0
37		05	02	309	0
38		04	04	315	0
· 39		04	05	321	0
40		04	06	327	0
	•		•	•	